In re Application of KADATCH et al.
Serial No. 09/814,474

AMENDMENTS TO CLAIMS

Please amend the claims as follows (claims 22-31 have been withdrawn):

1.   (Previously Presented): A computer-implemented method, comprising:

disabling interrupts on a computer system for entering a state of hibernation;

preparing a first set of data for writing a first set of content of volatile memory to a disk;

instructing a controller to write the first set of data asynchronously to the disk;

polling, in intermittent polling operations, a status register to determine when the write to the disk is complete; and

while between polling operations, preparing a second set of data for writing a second set of content of volatile memory to the disk.

2.   (Original): The method of claim 1 wherein preparing the first set of data for writing includes compressing the data.

3.   (Original): The method of claim 1 wherein preparing the first set of data for writing includes segmenting the data.

4.   (Original): The method of claim 1 further comprising, calling at least one driver to obtain information about write limitations of the disk.

5.   (Original): The method of claim 1 further comprising, reserving at least one special section of memory for preparing the first set of data for writing.

2

In re Application of KADATCH et al.
Serial No. 09/814,474

6.   (Original): The method of claim 1 further comprising, calling a disk driver

to obtain information about memory requirements of the driver.

7.   (Original): The method of claim 6 further comprising, reserving at least one

special section of memory for the disk driver based on the memory requirements thereof.

8.   (Previously Presented): A computer-implemented method, comprising:

disabling interrupts on a computer system;

instructing a controller to read data asynchronously from a disk to an input buffer;

polling, in intermittent polling operations, a status register to determine when the

read from the disk is complete; and

while between polling operations, decompressing at least some data in the input

buffer, wherein decompressing at least some of the data in the input buffer comprises,

accessing the data including tokens comprising literal symbols and length, offset pairings,

ensuring that space to hold a predetermined number of at least two output symbols is

present in an output buffer, selecting a token from the input data, and when the token

comprises a literal symbol, copying the literal symbol into the output buffer without

checking whether the symbol will fit into the output buffer, or when the token comprises a

length, offset pairing, copying at least the predetermined number of symbols into the output

buffer without checking whether each symbol will fit into the output buffer.

3

In re Application of KADATCH et al.
Serial No. 09/814,474

9.   (Original): The method of claim 8 further comprising, loading at least one
driver to enable the controller to read the data asynchronously from the disk.

10-11. (Cancelled).

12.   (Original): A computer-implemented method, comprising,

accessing compressed input data including tokens comprising literal symbols and
length, offset pairings;

ensuring that space to hold a predetermined number of at least two output symbols
is present in an output buffer;

selecting a token from the input data; and

if the token comprises a literal symbol, copying the literal symbol into the output
buffer without checking whether the symbol will fit into the output buffer; or

if the token comprises a length, offset pairing, copying at least the predetermined
number of symbols into the output buffer without checking whether each symbol will fit
into the output buffer.

13.   (Original): The method of claim 12 wherein ensuring that space to hold a
predetermined number of at least two output symbols is present includes, dividing space
remaining in the output buffer by the predetermined number.

4

In re Application of KADATCH et al.
Serial No. 09/814,474

14.   (Original): The method of claim 12 wherein the token comprises a length,

offset pairing and wherein copying a number of symbols comprises, copying the

predetermined number regardless of an actual length value in the length, offset pairing, and

adjusting a pointer based on the actual value.

15.   (Original): The method of claim 12 further comprising, determining that

space to hold a predetermined number of at least two output symbols may not be present in

an output buffer, and invoking another decoder to decompress the input data into the output

buffer.

16-21. (Cancelled).

22-31. (Withdrawn)